

ABSTRACT

In a magnetic head, a multilayer film is disposed, the multilayer film including metal magnetic films and non-magnetic films that are alternately laminated, and a boundary between the multilayer film and a magnetic oxide substrate or a non-magnetic substrate on which the multilayer film is to be formed is parallel with a gap section at a surface of the magnetic head for sliding with respect to a magnetic recording medium. The metal magnetic films constituting the multilayer film have two or more types of thickness, or the metal magnetic films constituting the multilayer film have a uniform thickness, and the uniform thickness t satisfies $t < v \times \cos\theta / f_{\max}$, where v denotes a relative speed of the head to the recording medium, f_{\max} denotes an upper limit of frequencies to be used and θ denotes an azimuth angle. With this configuration, a magnetic head having a suppressed pseudo signal and reduced noise can be provided, and a magnetic recording/reproducing device incorporating this magnetic head can be provided.

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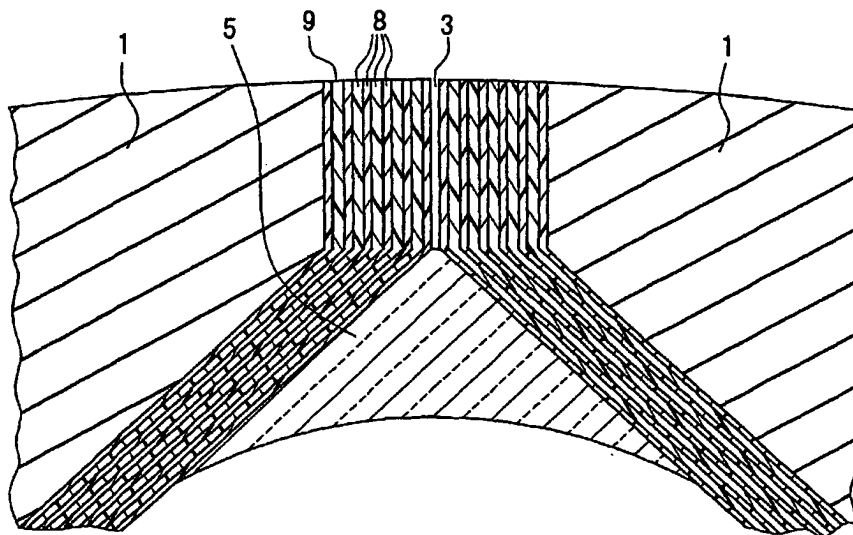
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(54) Title: MAGNETIC HEAD AND MAGNETIC RECORDING/REPRODUCING DEVICE

(54) 発明の名称: 磁気ヘッドおよび磁気記録再生装置



(57) Abstract: A magnetic head where a metal magnetic film (8) and a non-magnetic film (9) are alternately formed into a multilayer film, and the boundaries between the multilayer film and a magnetic oxide substrate or non-magnetic substrate where the multilayer film is formed are parallel to a gap section (3) over the surface to be in contact with the magnetic recording medium. The metal magnetic films (8) constituting the multilayer film have two or more thicknesses. Alternatively the metal magnetic films (8) have the same thickness, and the thickness t satisfies the condition, $t < v \times \cos \theta / f_{\max}$ (where v is the relative velocity between the head and the recording medium, f_{\max} is the upper limit of used frequency band, and θ is the azimuth angle). Thus, a magnetic head with few pseudo-signals and reduced noise and a magnetic recording/reproducing device having the magnetic head are provided.

(57) 要約: 金属磁性膜(8)と非磁性膜(9)とを交互に積層した多層膜が配置され、磁気記録媒体と接する面で前記多層膜と前記多層膜の形成される磁性酸化物

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